

Appl. No. 10/047,995
Amtd. Dated July 7, 2005
Reply to Office Action of March 10, 2005

Amendments to the Specification:

Please amend paragraph [0003], [0053] of the specification as follows:

[0003] Graphic rendering techniques have been developed to improve the image quality of subpixelated flat panels. Benzschawel, et al. in U.S. Pat. No. 5,341,153 teach how to reduce an image of a larger size down to a smaller panel. In so doing, Benzschawel, et al. teach how to improve image quality using a technique now known in the art as "sub-pixel rendering". More recently Hill, et al. in U.S. Pat. No. 6,188,385 teach how to improve text quality by reducing a virtual image of text, one character at a time, using the very same sub-pixel rendering technique. In a provisional patent application filed by the same inventor, "CONVERSION OF RGB PIXEL FORMAT DATA TO PENTILE MATRIX PIXEL DATA FORMAT" (Ser. No. 60/290,086; Attorney Docket No. CLRV-003P), now US Patent Publication Number 2003/0034992, hereby incorporated by reference, methods were disclosed to generate subpixel rendering filter kernels for improved display formats, including those formats disclosed herein. Prior art projectors, subtractive flat panel displays, and CRTs can not take advantage of such subpixel rendering.

[0053] Images 52 and 68 are built up by overlapping logical pixels as shown in FIGS. 13 and 16, respectively. For ease of illustration, the blue plane in each figure has not been shown for clarity. The algorithms used in calculating the values of the pixels in each color plane are disclosed in a provisional application submitted by the Applicant entitled, "CONVERSION OF RGB PIXEL FORMAT DATA TO PENTILE MATRIX PIXEL DATA

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FORMAT" (Ser. No. 60/290,086; Attorney Docket No. CLRV-003P), now US Patent.
Publication Number 2003/0034992, hereby incorporated by reference. The arrangement of the pixels of each color plane 14, 16, and 18 illustrated in FIGS. 6, 7, and 8, respectively, are essentially identical to some of the effective sample area arrangements found in the above-referenced provisional application. Thus, the techniques taught in the above-referenced provisional application disclosure are incorporated herein by reference. Further, the arrangement of this present application use the same reconstruction points of the pixel arrangements disclosed in the above-mentioned provisional application.